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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,887	11/15/2000	Barry Jay Weber	RCA90,206	5241

7590

02/19/2004

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EXAMINER

LAZARO, DAVID R

ART UNIT	PAPER NUMBER
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2155

DATE MAILED: 02/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/712,887

Applicant(s)

WEBER ET AL.

Examiner

David Lazaro

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 November 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-21 are pending in this Office Action.

Priority

2. This application claims the benefit of Provisional Application 60/207,386 filed 05/26/2000.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 11/15/00 was considered by the examiner.

Drawings

4. The drawings are objected to because in Fig. 4-6, some of the reference numbers are not visible for items in the far left column. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2155

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3, 7, 8, 12 and 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,778,187 by Monteiro et al. (Monteiro).

7. With respect to Claim 1, Monteiro teaches a system for processing broadcast multimedia program content and advertisements to provide a composite program datastream having multimedia data content and user targeted advertisements to multiple different users (Col. 1 lines 5-15), comprising: an input processor operable to concurrently receive broadcast multimedia program content from multiple sources (Col. 4 lines 18-32); a scheduler operable to schedule time of insertion of a designated advertisement into selected broadcast multimedia program content (Col. 16 lines 29-40); and a multiplexer operable to provide multiple users with individualized composite program datastreams (Col. 8 lines 10-14) by performing in parallel for multiple users: insertion of a designated advertisement into a selected multimedia program content at a scheduled insertion time to form a composite program datastream (Col. 7 lines 60-65, *Interpreted to mean insertion may occur at the Media Server*); and coupling of said composite program datastream to a corresponding user of the multiple users (Col. 5 line 65 – Col. 6 line 5).

8. With respect to Claim 2, Monteiro teaches all the limitations of Claim 1 and further teaches said broadcast multimedia program content comprises at least one of (a) streamed audio data, (b) streamed video data, (c) voice representative data, (d) voicemail data, and (e) a radio or video broadcast (Col. 4 lines 18-32).

9. With respect to Claim 3, Monteiro teaches all the limitations of Claim 1 and further teaches said scheduler receives and pre-caches advertisements from multiple sources to provide candidate advertisements for selection of said designated advertisement for insertion in said selected multimedia program content at said scheduled insertion time (Col. 4 lines 43-54 and Col. 1 lines 11-15).
10. With respect to Claim 7, Monteiro teaches all the limitations of Claim 1 and further teaches said multiplexer repeats said composite program datastream by mapping stored data comprising said composite program datastream to provide multiple stored copies of said composite program datastream for coupling to multiple users to enable scalable expansion of broadcast of said composite program datastream (Col. 5 line 65 – Col. 6 line 5 and Col. 3 lines 55-59).
11. With respect to Claim 8, Monteiro teaches all the limitations of Claim 1 and further teaches said multiplexer tracks a user connection (Col. 8 lines 4-11 and Fig. 5) and maintains a database of user connection related statistics (Col. 3 lines 39-54) comprising at least one of (a) user favorite program sources (Col. 3 lines 50-54), (b) number of advertisements broadcast (See Claim 5 and 6), (c) number of users receiving said composite program datastream (Col. 3 lines 42-44), and (d) length of user connection to a particular composite program datastream (Col. 3 lines 50-54).
12. With respect to Claim 12, Monteiro teaches all the limitations of Claim 1 and further teaches a user profile database operable to allocate one of a plurality of available different advertisements for delivery to an individual user based on previously compiled user preference data in said user profile database (Col. 16 lines 34-41); and a

data acquisition processor operable to compile user preference information used in said user profile database based on prior user program selection history (Col. 16 lines 34-41).

13. With respect to Claim 17, Monteiro teaches a system for processing broadcast multimedia program content and advertisements to provide a composite program datastream having multimedia data content and user targeted advertisements to multiple different users (Col. 1 lines 5-15), comprising: an input processor operable to concurrently receive broadcast multimedia program content (Station 1-3) from multiple sources (Col. 4 lines 18-32); a scheduler operable to receive and pre-cache advertisements from multiple sources (Col. 4 lines 43-54 and Col. 1 lines 11-15), and schedule time of insertion of a selected advertisement into selected broadcast multimedia program content (Col. 16 lines 29-40); and a multiplexer operable to provide multiple users with individualized composite program datastreams (Col. 8 lines 10-14) by performing in parallel for multiple users: insertion of a designated advertisement into a selected multimedia program content at a scheduled insertion time to form a composite program datastream (Col. 7 lines 60-65, *Interpreted to mean insertion may occur at the Media Server*); and coupling of said composite program datastream to a corresponding user of the multiple users (Col. 5 line 65 – Col. 6 line 5).

14. With respect to Claim 18, Monteiro teaches all the limitations of Claim 17 and further teaches said multiplexer records data identifying broadcast multimedia programs and advertisements provided to users (Col. 3 lines 30-54), and said recorded data is

Art Unit: 2155

used for at least one of (a) billing a user, (b) billing an advertiser, and (c) tracking royalty payments (Col. 3-lines 47-48).

15. With respect to Claim 19, Monteiro teaches all the limitations of Claim 17 and further teaches said multiplexer repeats said composite program datastream by mapping stored data comprising said composite program datastream to provide multiple stored copies of said composite program datastream for coupling to multiple users to enable scalable expansion of broadcast of said composite program datastream (Col. 5 line 65 – Col. 6 line 5 and Col. 3 lines 55-59).

16. With respect to Claim 20, Monteiro teaches in a system for processing broadcast multimedia program content and advertisements to provide a composite program datastream including multimedia data content and user targeted advertisements to multiple different users (Col. 1 lines 5-15), a method comprising: concurrently receiving broadcast multimedia program content (Station 1-3) from multiple sources (Col. 4 lines 18-32); scheduling time of insertion of a designated advertisement into selected broadcast multimedia program content (Col. 16 lines 29-40); and providing multiple users with individualized composite program datastreams (Col. 8 lines 10-14) by performing in parallel for multiple users: insertion of a designated advertisement into a selected multimedia program content at a scheduled insertion time to form a composite program datastream (Col. 7 lines 60-65); and coupling of said composite program datastream to a corresponding user of the multiple users (Col. 5 line 65 – Col. 6 line 5).

17. With respect to Claim 21, Monteiro teaches a system for providing terrestrially broadcast audio programs from a terrestrial broadcaster and advertisements over a

Art Unit: 2155

network to multiple users, the advertisements targeted for specific users of the multiple users (Col. 1 lines 5-15), the system comprising: a scheduler operable to receive advertisement insertion data from the terrestrial broadcaster corresponding to terrestrial broadcast audio programs from the terrestrial broadcaster (Col. 4 lines 46-49) and provide an advertisement insertion schedule for each one of the terrestrial broadcast audio content (Col. 16 lines 29-40); a program aggregator operable to: (a) receive a plurality of terrestrially broadcast audio programs from the terrestrial broadcasters (Col. 4 lines 18-32), the terrestrially broadcast audio programs having advertisement insertion markers (Col. 8 lines 20-23), (b) receive an advertisement insertion schedule from the scheduler for each one of the terrestrially audio programs (Col. 16 lines 29-40), and (c) provide an advertisement marked composite datastream for each one of the terrestrial broadcast audio programs (Col. 8 lines 10-14); and a multiplexer operable to provide one of the advertisement marked composite datastreams and a targeted advertisement from a plurality of advertisements to any one of the multiple users (Col. 5 line 65 – Col. 6 line 5).

Claim Rejections - 35 USC § 103

18. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2155

19. Claims 4-6 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Monteiro in view of U.S. Patent Application Publication 2001/0023436 by Srinivasan (Srinivasan).

20. With respect to Claim 4, Monteiro teaches all the limitations of Claim 1 but does not explicitly disclose scheduling information provided by either a broadcast source or a source of the designated advertisement. Srinivasan teaches in a similar system that the scheduling information for insertion of a designated advertisement can be provided either by the broadcast source of a selected broadcast program, the advertisement source, or by any other prior arrangement (Page 17 [0198]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to take the system disclosed by Monteiro and modify it as indicated by Srinivasan such that said scheduler schedules insertion of said designated advertisement into said multimedia program content based on at least one of (a) scheduling information provided by a broadcast source of said selected broadcast multimedia program, and (b) scheduling information provided by a source of said designated advertisement. One would be motivated to have this since it is a common way for content providers to sell advertising slots (Page 17 [0198]).

21. With respect to Claim 5, Monteiro in view of Srinivasan teaches all the limitations of Claim 4 and further teaches said scheduling information contains advertisement scheduling information covering multiple broadcast multimedia programs (Page 17 [0198]).

22. With respect to Claim 6, Monteiro in view of Srinivasan teaches all the limitations of Claim 4 and further teaches said scheduling information provided by a broadcast source comprises at least one of (a) information indicating time slots available for advertisement insertion in said broadcast multimedia program (Page 17 [0198]), (b) markers in said selected broadcast multimedia program indicating an advertisement insertion time slot (Page 10 [0112]), and (c) information for identifying advertisement insertion time slots from time stamp indications (Page 20 [0228]).

23. With respect to Claim 9, Monteiro teaches all the limitations of Claim 1 but does not explicitly disclose dynamically reallocating advertisements targeted to a user during broadcast in response to a command by selecting an advertisement from a plurality of available advertisements of a suitable duration. Srinivasan teaches dynamically reallocating advertisements targeted to a user during broadcast in response to a command by selecting an advertisement from a plurality of available advertisements of a suitable duration (Page 18 [0204] and Page 19 [0215]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to take the system disclosed by Monteiro and modify it as indicated by Srinivasan such that said multiplexer dynamically reallocates advertisements targeted to a user during broadcast of said composite program datastream in response to a command by selecting an advertisement from a plurality of available advertisements of duration suitable for a time slot at said scheduled insertion time. One would be motivated to have this as this allows for better targeting of advertisements based on the latest user statistics (Page 19 [0215]).

Art Unit: 2155

24. With respect to Claim 10, Monteiro in view of Srinivasan teaches all the limitations of Claim 9 and further teaches a locally source advertisement is selected for said time slot in preference to a non-locally sourced advertisement (Page 16-17 [0192]).

25. With respect to Claim 11, Monteiro in view of Srinivasan teaches all the limitations of Claim 10 and further teaches an error processor operable to parse said composite program datastream to detect error, and including an error concealment function operable to reduce the consequences of a detected error (Col. 7 lines 12-31).

26. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Monteiro in view of U.S. Patent 6,205,480 by Broadhurst et al. (Broadhurst).

27. With respect to Claim 13, Monteiro teaches a system for processing broadcast multimedia program content and advertisements to provide a composite program datastream having multimedia data content and user targeted advertisements to multiple different users (Col. 1 lines 5-15), comprising: a condition access processor operable to concurrently receive broadcast multimedia program content from multiple sources (Col. 4 lines 18-32); a scheduler operable to schedule time of insertion of a designated advertisement into selected broadcast multimedia program content (Col. 16 lines 29-40); and a multiplexer operable to provide multiple users with individualized composite program datastreams by performing in parallel for multiple users: insertion of a designated advertisement into a selected multimedia program content at a scheduled insertion time to form a composite program datastream (Col. 7 lines 60-65, *Interpreted to mean insertion may occur at the Media Server*); and coupling of said composite

Art Unit: 2155

program datastream to a corresponding user of the multiple users (Col. 5 line 65 – Col. 6 line 5). Monteiro does not explicitly disclose the condition access processor determining authorization of the multiple broadcast sources. Broadhurst teaches systems often employ some type of authorization before access is given to the associated services or resources (Col. 1 lines 11-29). It would have been obvious to one of ordinary skill in the art at the time the invention was made to take the system disclosed by Monteiro and modify it as indicated by Broadhurst such that the system further comprises a condition access processor operable to determine authorization of multiple broadcast sources to concurrently provide broadcast multimedia program content to the system. One would be motivated to have this as it provides security and prevents unauthorized use (Col. 1 lines 11-29).

28. With respect to Claim 14, Monteiro in view of Broadhurst teaches all the limitations of Claim 13 and further teaches said conditional access processor determines authorization of a broadcast source to provide broadcast multimedia program content based on at least one of (a) a broadcaster ID, and (b) a password (Col. 1 lines 11-15).

29. With respect to Claim 15, Monteiro in view of Broadhurst teaches all the limitations of Claim 13 and further teaches said conditional access processor includes a decryption function to decrypt at least one of (a) encrypted broadcast multimedia program content, and (b) an encrypted authorization code or password (Col. 3 lines 61-62).

30. With respect to Claim 16, Monteiro in view of Broadhurst teaches all the limitations of Claim 13 and further teaches said multiplexer repeats said composite program datastream by mapping stored data comprising said composite program datastream to provide multiple stored copies of said composite program datastream for coupling to multiple users to enable scaleable expansion of broadcast of said composite program datastream (Col. 5 line 65 – Col. 6 line 5 and Col. 3 lines 55-59).

Conclusion

31. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

32. U.S. Patent Patent Application Publication 2002/00338383 by Ullman et al. "Enhanced video programming system and method for incorporating an displaying retrieved integrated internet information segments" March 28, 2002

33. U.S. Patent 6,678,215 by Treyz et al. "Digital audio devices" January 13, 2004

34. U.S. Patent 6,505,240 by Blumenau "Ameliorating bandwidth requirements for the simultaneous provision of multiple sets of content over a network" January 7, 2003

35. U.S. Patent 6,434,621 by Pezzillo et al. "Apparatus and method of using the same for internet and intranet broadcast channel creation and management" August 13, 2002

36. U.S. Patent 6,112,192 by Capek "Method for providing individually customized content in a network" August 29, 2000

Art Unit: 2155

37. U.S. Patent 6,985,229 by Newman et al. "System and method for providing client side personalization of content of web pages and the like" July 4, 2000
38. U.S. Patent 6,018,768 by Ullman et al. "Enhanced video programming system and method for incorporating and displaying retrieved integrated internet information segments." January 25, 2000
39. U.S. Patent 6,006,265 by Rangan et al. "Hyperlinks resolution at and by a special network server in order to enable diverse sophisticated hyperlinking upon a digital network." December 21, 1999

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lazaro whose telephone number is 703-305-4868. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 703-308-6662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2155

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



February 17, 2004
David Lazaro


HOSAIN ALAM
SUPERVISORY PATENT EXAMINER